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## GENERAL NOTES

- INDICATES POINT OF CONNECTION OF NEW TO EXISTING MECHANICAL.
- (E) INDICATES EXISTING. (N) INDICATES NEW MATERIAL.
- COORDINATE ALL FIRE SPRINKLER, DIFFUSER AND GRILLE LOCATIONS WITH REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS.
- THIS CONTRACTOR SHALL NOT SHUT-OFF/ PUT OUT OF SERVICE ANY SYSTEMS/SERVICES WITHOUT FIRST COORDINATING ALL DOWNTIME WITH THE OWNER'S PERSONAL.
- ALL RIGID ROUND DUCTWORK SHALL RECEIVE 1-1/2" - 2.0 LBS/CU.FT. FIBERGLASS DUCT WRAP. ALL RECTANGULAR DUCT SHALL RECEIVE 1" - 1.5 LBS/CU.FT. DUCT LINER, TRIM AND SEAL JOINTS W/ MYLAR LINING. LOW PRESSURE ROUND FLEXIBLE DUCT TO BE 1-1/2" THICK INSULATED AND A MAXIMUM OF 10 FT. LONG. ALL INSULATION TO MEET NFPA 90 PER UL 181-CLASS 1. MEDIUM PRESSURE FLEXIBLE DUCT TO BE INSULATED, RATED FOR 6" W.C. AND SHALL BE STRETCHED OUT TO PREVENT ANY KINKS OR OFFSETS (3 FT. MAX. LENGTH).
- DUCTWORK AND PIPE ROUTING IS APPROXIMATE, DIAGRAMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF ALL WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
- THIS CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH ALL NEW AND EXISTING MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL MEMBERS.
- THIS CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO COMMENCING NEW WORK. NO ADDITIONAL COST WILL BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING MECHANICAL CONDITIONS.
- THIS CONTRACTOR SHALL USE SMACNA STANDARDS FOR HIGH PRESSURE DUCT CONSTRUCTION OF SUPPLY DUCTWORK UPSTREAM OF VAV BOX - SEAL CLASS "A". ALL OTHER DUCTWORK SHALL BE CONSTRUCTED ACCORDING TO SMACNA STANDARDS FOR LOW PRESSURE DUCT CONSTRUCTION - SEAL CLASS "B".
- ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH 2003 INTERNATIONAL BUILDING CODE, 2003 INTERNATIONAL FIRE CODE, 2003 INTERNATIONAL MECHANICAL CODE AND 2003 INTERNATIONAL PLUMBING CODE.
- THIS CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION OF THESE SAME ITEMS.
- ALL VAV BOXES AND DIFFUSERS MUST BE BALANCED PER PLAN. PROVIDE BALANCE REPORT TO ENGINEER AND O&M.
- DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.

## PIPING LEGEND

GATE VALVE		CHILLED WATER SUPPLY	— CHS —
OS & Y PATTERN GATE VALVE		CHILLED WATER RETURN	— CHR —
BALL VALVE		CONDENSER WATER SUPPLY	— CWS —
BUTTERFLY VALVE		CONDENSER WATER RETURN	— CWR —
MOTORIZED BUTTERFLY VALVE		HEATING WATER SUPPLY	— HWS —
HEAT TRACING		HEATING WATER RETURN	— HWR —
DE-IONIZED WATER	— DI —	WATER TREATMENT	— WT —
CHECK VALVE		FIRE DEPT. HORN & LIGHT	
SOLENOID VALVE		HOT GAS	— HG —
AUTOMATIC CONTROL VALVE (2-WAY)		FLEXIBLE PIPE CONNECTION	
AUTOMATIC CONTROL VALVE (3-WAY)		REDUCED PRESSURE BACKFLOW PREVENTER	
PRESSURE REDUCING VALVE		DIRECTION OF FLOW	
P & T RELIEF VALVE		ELBOW DOWN (DN)	
AIR VENT (AUTOMATIC)		ELBOW UP	
REFRIGERANT LIQUID	— RL —	PIPE CAP	
REFRIGERANT SUCTION	— RS —	TEE DOWN	
THERMAL EXPANSION VALVE		UNION	
STRAINER		DOMESTIC COLD WATER	— — —
CIRCUIT SETTER		DOMESTIC HOT WATER	— — —
FLOW METER		HOT WATER CIRC.	— — —
PET COCK OR GAUGE COCK		TEMPERED WATER	— T —
PRESSURE GAUGE W/GAUGE COCK		SANITARY (PLBG) VENT	— — — — —
THERMOMETER		SANITARY SEWER ABOVE GRADE	— — — — —
TEMPERATURE & PRESSURE TEST PLUG		SANITARY SEWER BELOW GRADE	— — — — —
IN-LINE PUMP		DRAIN	— D —
FLOW SWITCH		ROOF DRAIN PIPING	— RD —
AQUASTAT		OVERFLOW DRAIN PIPING	— OD —
HOSE BIBB OR SILLCOCK		STORM DRAIN PIPING ABOVE GRADE	— SD —
VACUUM	— V —	STORM DRAIN PIPING BELOW GRADE	— SD —
FLOOR DRAIN		FIRE SERVICE	— F —
FLOOR SINK		NATURAL GAS	— G —
HOT GAS BYPASS	— HGBP —	COMPRESSED AIR	— CA —
WALL CLEANOUT OR CLEANOUT		VENT THROUGH ROOF	
FLOOR OR GRADE CLEANOUT		STEAM	— S —
GRADE CLEANOUT W/ CONCRETE PAD		CONDENSATE	— C —

## MECHANICAL LEGEND

RETURN OR EXHAUST DUCT DOWN	
RETURN OR EXHAUST DUCT UP	
SUPPLY AIR DUCT DOWN	
SUPPLY AIR DUCT UP	
SPIN-IN FITTING W/MVD	
FLEXIBLE DUCT	
CEILING SLOT DIFFUSER	
CEILING DIFFUSER	
CEILING EXHAUST GRILLE	
CEILING GRILLE	
ACCESS PANEL	
MANUAL VOLUME DAMPER	
MOTORIZED DAMPER	
FIRE DAMPER	
COMBINATION FIRE/SMOKE DAMPER	
THERMOSTAT OR TEMP SENSOR	
POINT OF CONNECTION TO EXISTING	
DETAIL TAG	
KEYED NOTE	
SECTION CUT LINE	
CONTROL TRANSFORMER	
LOW PRESSURE DUCT W/ TURNING VANES	
BALANCER TO TURN ALL SLOTS IN DIFFUSER FACING DIRECTION NOTED	

## CIRCULATION PUMP SCHEDULE CP-

PLAN CODE	DUTY	GPM	FEET OF HEAD	PUMP RPM	MOTOR		MANUFACTURER & MODEL NO.	COMMENTS
					H.P.	VOLTAGE & PHASE		
CP-1	DOMESTIC HOT WATER CIRCULATION	1	5	3250	1/40	120/1	TACO MODEL 006 PNP	STAINLESS STEEL CARTRIDGE

## GAS FIRED WATER HEATER SCHEDULE WH-

PLAN CODE	INPUT (BTUH)	OUTPUT (BTUH)	EFFICIENCY %	FUEL	CAP. (GAL)	RECOVERY RATE (GPH)	TEMP. RISE (°F)	FLUE DIA.	FLUE TYPE	DIMENSIONS		VOLTAGE & PHASE	MANUFACTURER & MODEL NO.	ACCESSORIES/COMMENTS
										DIAMETER (in.)	HEIGHT (in.)			
WH-1	199,999		80	NG	98	194	100	6	TYPE B	30	65		BRADFORD WHITE #D-100L-199-3N	①②③④⑤

① OUTLET THERMOMETER ② PRESSURE TEMPERATURE VALVE ③ SEDIMENT REDUCTION SYSTEM ④ ELECTRONIC IGNITION ⑤ INSTALL PER MANUFACTURER RECOMMENDATIONS

## PLUMBING FIXTURE CONNECTION SCHEDULE

PLAN CODE	DESCRIPTION	CONNECTION SIZE				SPECIFICATIONS
		C.W.	H.W.	WASTE	VENT	
WC-1	WATER CLOSET	1"	---	4"	2"	KOHLER K-4330, "KINGSTON", VITREOUS CHINA, 1½" TOP SPUD. 1.6 GPF. WALL MOUNTED, ELONGATED BOWL W/K-4666-CA ELONGATED OPEN FRONT TOILET SEAT. SLOAN #8110 G2 OPTIMA PLUS FLUSH VALVE. FLUSH VALVE TO HAVE MANUAL OVERRIDE. MOUNT WC AT 15" AFF
WC-2	WATER CLOSET (HANDICAP)	1"	---	4"	2"	KOHLER K-4330, "KINGSTON", ADA COMPLIANT, VITREOUS CHINA, 1½" TOP SPUD. 1.6 GPF. WALL MOUNTED, ELONGATED BOWL W/K-4666-CA ELONGATED OPEN FRONT TOILET SEAT. SLOAN #8110 G2 OPTIMA PLUS FLUSH VALVE. FLUSH VALVE TO HAVE MANUAL OVERRIDE. MOUNT WC AT 18" AFF
U-1	URINAL	3/4"	---	2"	2"	KOHLER K-4972-T, "STANWELL", ADA COMPLIANT, VITREOUS CHINA, 1½" TOP SPUD. 1.0 GPF. WALL MOUNTED, SLOAN #8180 G2 OPTIMA PLUS FLUSH VALVE. FLUSH VALVE TO HAVE MANUAL OVERRIDE. MOUNT URINAL AT 17" AFF
L-1	WALL HUNG LAVATORY	1/2"	1/2"	1-1/2"	1-1/2"	KOHLER WHITE K-2005 "KINGSTONE", WALL HUNG VITREOUS CHINA, WITH 4" FAUCET CENTERS, K-7605 ANGLE SUPPLIES WITH STOPS, K-8998 MCGUIRE PRO-WRAP INSULATION ON P-TRAP AND SUPPLIES.
S-1	KITCHEN SINK	1/2"	1/2"	2"	2"	"JUST" 18 GA. STAINLESS STEEL SINK. 18"x32" OUTSIDE DIMENSIONS; 7½" DEEP. TYPE 304 STAINLESS, SOUND DEADENED. "JUST" J-901 DECK MOUNTED SINGLE LEVER WASHERLESS MIXING FAUCET WITH ESCUTCHEON AND 8" SPOUT WITH AERATOR. "JUST" J-35-316 STAINLESS STEEL CRUMB CUP STRAINERS WITH REMOVABLE BASKET, FLEXIBLE CHROME PLATED SUPPLIES WITH STOPS, CAST BRASS P-TRAPS WITH CLEANOUT PLUG. DISPOSAL - STAINLESS STEEL INTERNAL CONSTRUCTION, AUTOMATIC REVERSING ACTION, QUICK-LOCK MOUNTING, PERMANENTLY LUBRICATED BEARINGS, DISHWASHER DRAIN CONNECTION, OVERLOAD PROTECTION W/MANUAL RESET. ½ HP
S-2	MOP SINK	1/2"	1/2"	3"	2"	KOHLER #K-6710, 28"x28" ENAMELED CAST IRON FLOOR MOUNTED CORNER MODEL. K-9146-3 3" DRAIN W/STRAINER AND SOCKET, # K-8940 REMOVABLE VINYL COATED GUARD. K-8940 FAUCET W/VACUUM BREAKER, SCREWDRIIVER STOPS IN SHANKS, 5' RUBBER HOSE AND WALL HOOK.
FD-1	FLOOR DRAIN	---	---	SEE PLANS	2"	JOSAM 2" FLOOR DRAIN, #3000-5A, STAINLESS STEEL OR NICKEL BRONZE STRAINER. ADJUSTABLE STRAINER, TRAP PRIMER, PROVIDE PRO-SET TRAP GUARD. PROVIDE SQUARE STRAINER FOR MENS SHOWER ROOM.
RD-1	ROOF DRAIN	---	---	4"	---	JR SMITH #1010 W/FLASING CLAMP, UNDER DECK CLAMP, CAST IRON DOME, INSULATE BOTTOM OF ROOF DRAIN BOWL AND DRAIN PIPE.
OD-1	OVER FLOW ROOF DRAIN	---	---	4"	---	JR SMITH #1080 W/FLASING CLAMP, UNDER DECK CLAMP, CAST IRON DOME, 2½" WATER DAM, INSULATE BOTTOM OF ROOF DRAIN BOWL AND DRAIN PIPE.
DSN-1	OVER FLOW ROOF DRAIN NOZZLE	---	---	4"	---	JR SMITH #1770-PB DOWNSPOUT NOZZLE.
HB-1	HOSE BIBB	1/2"	---	---	---	JRSMITH #5519, COMPLETE WITH STAINLESS STEEL FLUSH MOUNTED BOX, NON-FREEZE VALVE AND VACUUM BREAKER, ¼ TURN HYDRANT.
DF-1	DRINKING FOUNTAIN	1/2"	---	1 1/2"	1 1/2"	HAWS #HWFABL, HI-LO BARRIER FREE. 7.7 GPH, 115 VOLT, R134A REFRIGERANT, CHROME PLATED BRASS BUBBLE HEAD, SELF-LUBRICATING FAN MOTOR. PUSH DOWN BARS TO ACTIVATE WATER DELIVERY, ADA COMPLIANT. BRUSHED STERLING VINYL FINISH. WATER TEMPERATURE 50°F.
TP-1	TRAP PRIMER	1/2"	---	---	---	MIFAB M-500, PRESSURE DROP ACTIVATED TRAP SEAL PRIMER, W/MIFAB MI-GAP DISTRIBUTION UNIT. PROVIDE ACCESS DOOR TO TRAP PRIMER.
SA-1	SHOCK ABSORBER	1/2"	---	---	---	JOSAM #75000 SERIES, STAINLESS STEEL, SEE PLANS FOR SIZE. PROVIDE ACCESS DOOR. SEE ARCHITECT FOR COLOR OF DOOR.
SH-1	SHOWER	1/2"	1/2"	1-1/2"	1-1/2"	SYMMONS #BP-56-1-X-LR-141, COMPLETE W/SELF CLEANING FULL DRENCH SHOWER HEAD, 2.5 GPM, PRESSURE BALANCING MIXING VALVE, STOPS, LOOP HANDLE, POLISH CHROME FINISH.
SH-2	HANDICAP SHOWER	1/2"	1/2"	1-1/2"	1-1/2"	SYMMONS #BP-56-500-B30-X-LR-V-141, COMPLETE W/SELF CLEANING FULL DRENCH SHOWER HEAD, 2.5 GPM, PRESSURE BALANCING MIXING VALVE, STOPS, LOOP HANDLE, POLISH CHROME FINISH, DIVERTING VALVE, IN-LINE VACUUM BREAKER, HAND SHOWER AND 5' FLEXIBLE METAL HOSE, 30" SLIDER BAR.
SH-3	HANDICAP SHOWER	1/2"	1/2"	1-1/2"	1-1/2"	SYMMONS #BP-56-500-B30-X-LR-V-141, COMPLETE W/SELF CLEANING FULL DRENCH SHOWER HEAD, 2.5 GPM, PRESSURE BALANCING MIXING VALVE, STOPS, LOOP HANDLE, POLISH CHROME FINISH, DIVERTING VALVE, IN-LINE VACUUM BREAKER, HAND SHOWER AND 5' FLEXIBLE METAL HOSE, 30" SLIDER BAR. LASCO #1603-BFSC PREFABRICATED SHOWER STALL COMPLETE WITH SOAP DISH, GRAB BARS, SEAT, SLIP RESISTANT TEXTURED BOTTOM, AND CURTAIN ROD.
SH-4	SHOWER	1/2"	1/2"	1-1/2"	1-1/2"	SYMMONS #BP-56-1-X-LR-141, COMPLETE W/SELF CLEANING FULL DRENCH SHOWER HEAD, 2.5 GPM, PRESSURE BALANCING MIXING VALVE, STOPS, LOOP HANDLE, POLISH CHROME FINISH. LASCO #1603-COS PREFABRICATED SHOWER STALL. COMPLETE WITH SOAP SHELVES, ACRYLIC GRAB BAR, SLIP RESISTANT, TEXTURED BOTTOM.



90 South 400 West, Suite 340  
Salt Lake City UT, 84101  
Phone: (801) 359-3158  
Fax: (801) 521-4114

**jsa** architecture  
planning  
interiors

3115 e. lion lane suite 300  
salt lake city utah 84121  
801.278.8151 fax 801.278.8661

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CONSULTANTS:



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BUILDING NAME:

UTAH NATIONAL  
GUARD  
JLTC

PROJECT TITLE:

BUILDING #3  
CAMP WILLIAMS  
DRAPER, UT

MARK	DATE	DESCRIPTION
△	08/19/05	ADDENDA #2

ISSUE TYPE: CODE REVIEW SET

DATE: JULY 19, 2005

PROJECT NO: 04045.04

DRAWN BY: MM  
CHK'D BY: ADS

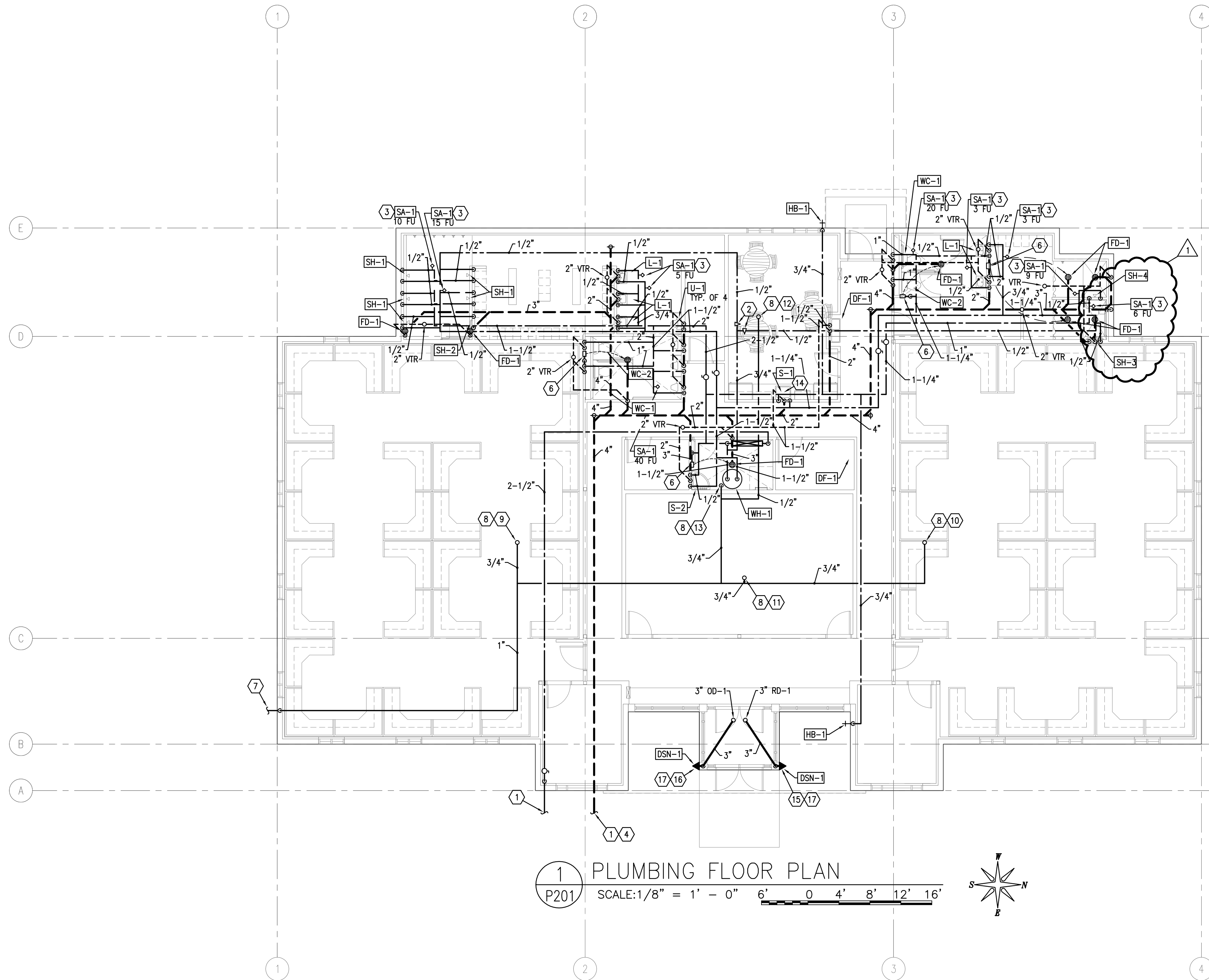
SHEET TITLE

SCHEDULE  
SHEET

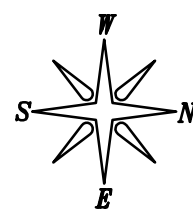
SHEET NUMBER

P001

SHEET 40 OF 53



1 PLUMBING FLOOR PLAN  
P201 SCALE: 1/8" = 1' - 0" 6' 0 4' 8' 12' 16'



KEYED NOTES:

- 1 SEE CIVIL DRAWINGS FOR CONTINUATION
- 2 SET BALANCING VALVE TO 0.50 GPM
- 3 PROVIDE ACCESS DOOR
- 4 I.F. 4740.13 FIELD VERIFY. COORDINATE WITH SITE CONTRACTOR EXACT LOCATION AND I.E.
- 5 SEE PRESSURE REDUCING STATION DETAIL
- 6 TRAP PRIMER WITH 1/2" TYPE L COPPER PIPE TO P-TRAP.
- 7 961 CUBIC FEET OF 2 PSI NATURAL GAS WITH SPECIFIC GRAVITY OF 0.60 AND HEAT CONTENT OF 890 BTU/CUBIC FEET. EXTEND TO GAS METER. SEE UTILITY SITE PLANS FOR METER LOCATION.
- 8 PROVIDE APPLIANCE PRESSURE REDUCING VALVE TO REDUCE FROM 2 PSI TO 40 OZ. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. VENT TO OUTSIDE IF REQUIRED.
- 9 3/4" PIPE UP TO RTU-1.
- 10 3/4" PIPE UP TO RTU-2.
- 11 3/4" PIPE UP TO RTU-3.
- 12 1/2" PIPE UP TO RTU-4.
- 13 3/4" PIPE DOWN TO WH-1.
- 14 PROVIDE 1/2" SADDLE VALVE ON CW AND 1/2" TUBING FOR ICE MAKER LOCATED IN REFRIGERATOR. 2 EA. REFRIGERATORS TOTAL
- 15 LABEL WITH PLASTIC LAMINATE LABEL TO READ "PRIMARY ROOF DRAIN". ATTACH LABEL ABOVE DOWN SPOUT.
- 16 LABEL WITH PLASTIC LAMINATE LABEL TO READ "EMERGENCY OVERFLOW ROOF DRAIN". ATTACH LABEL ABOVE DOWN SPOUT.
- 17 MOUNT 12" AFG.



90 South 400 West, Suite 340  
Salt Lake City UT, 84101  
Phone: (801) 359-3158  
Fax: (801) 521-4114

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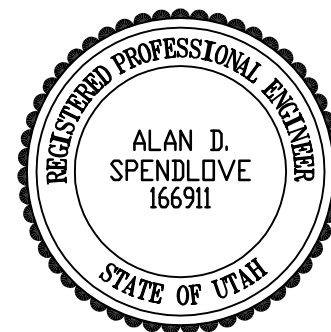
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801.278.8151 fax 801.278.8661

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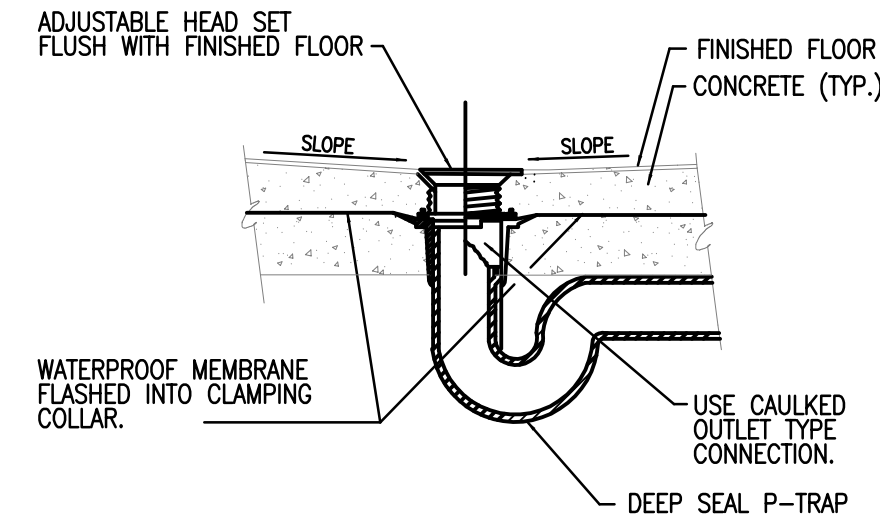
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PLUMBING  
FLOOR PLAN

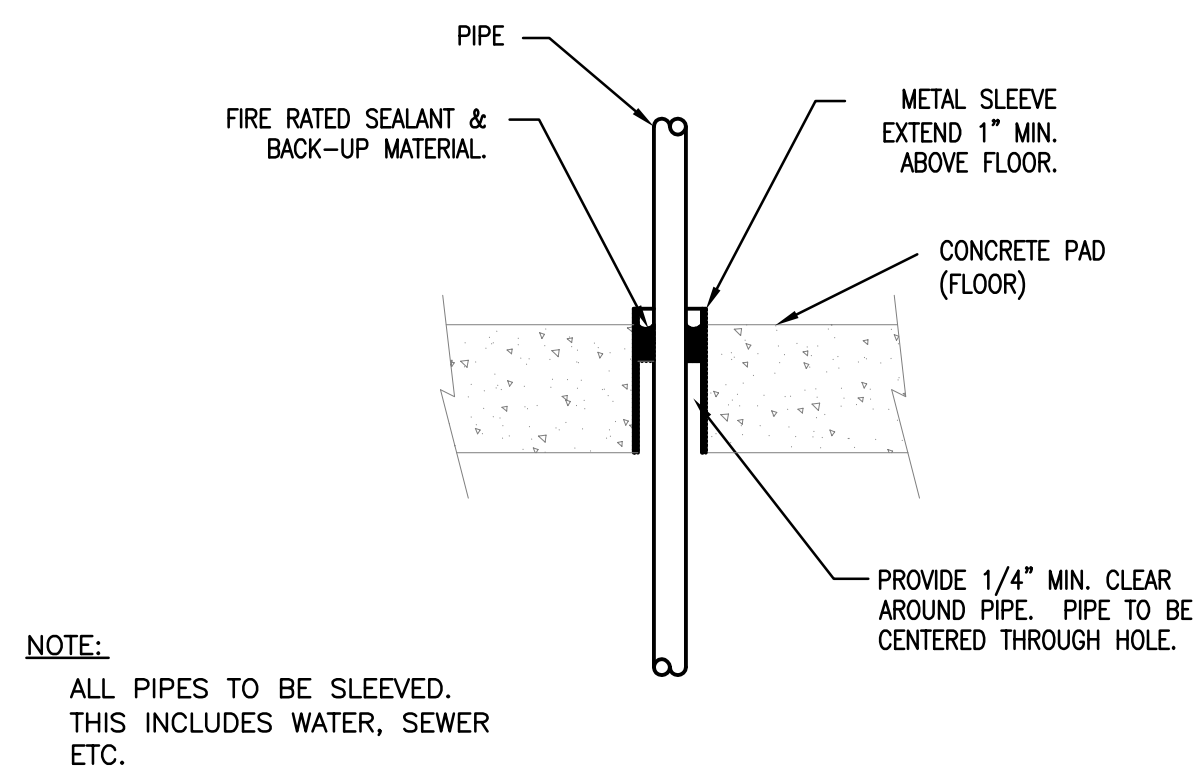
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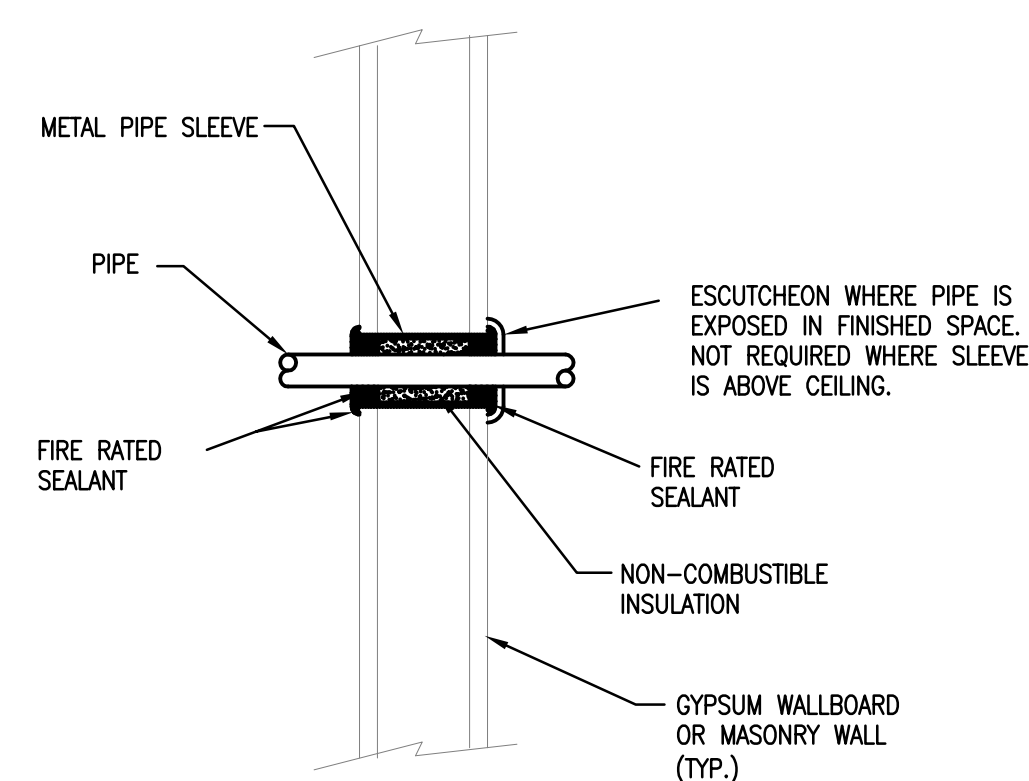
SHEET 41 OF 53



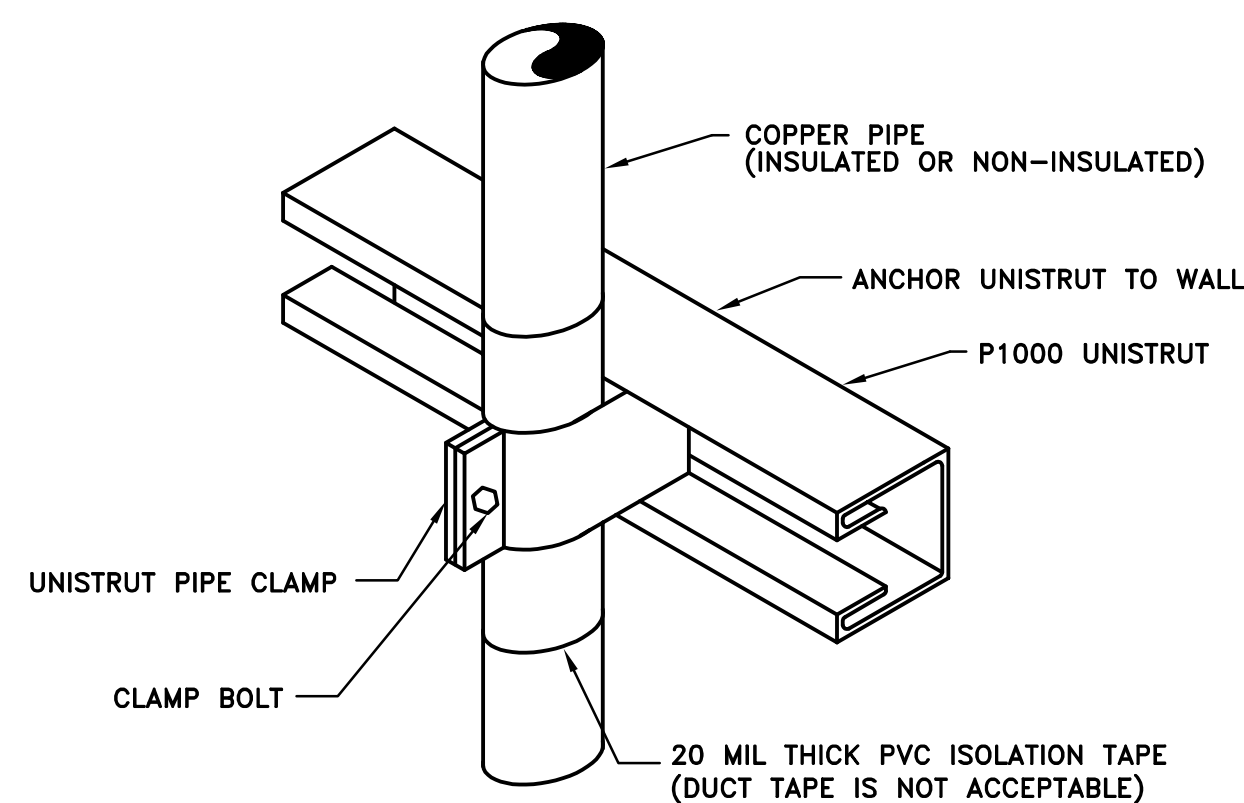
1 FLOOR DRAIN DETAIL  
P601 NO SCALE



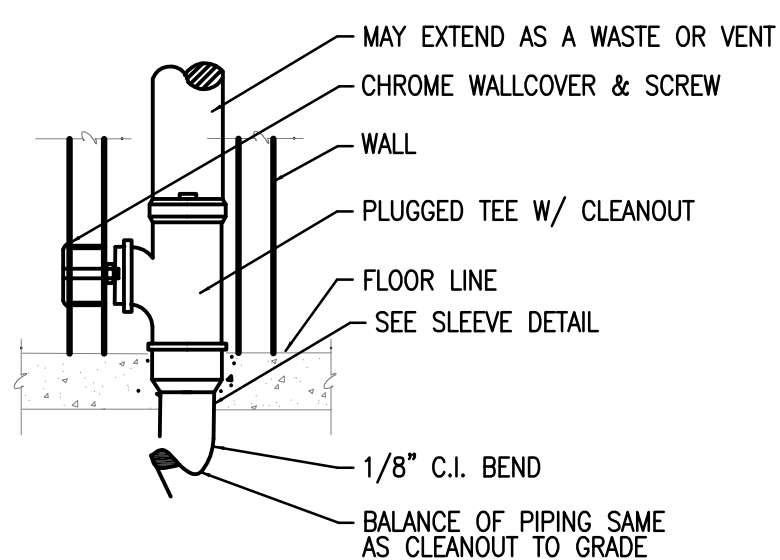
2 PIPE THROUGH FLOOR ABOVE GRADE  
P601 NO SCALE



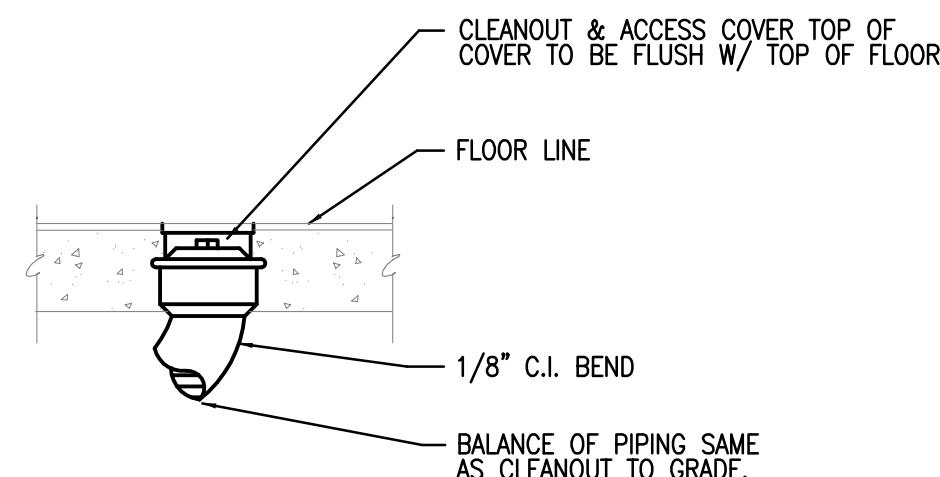
3 PIPING THROUGH FIRE-RATED WALL  
P601 NO SCALE



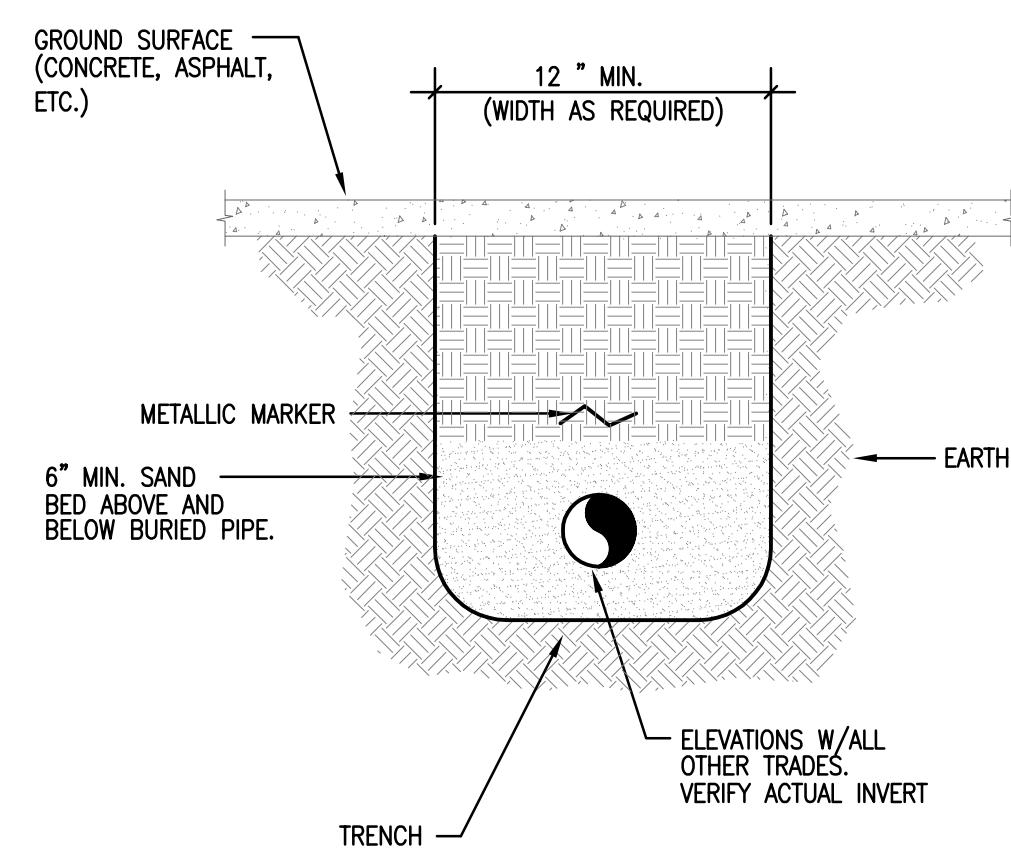
4 PIPE SUPPORT  
P601 NO SCALE



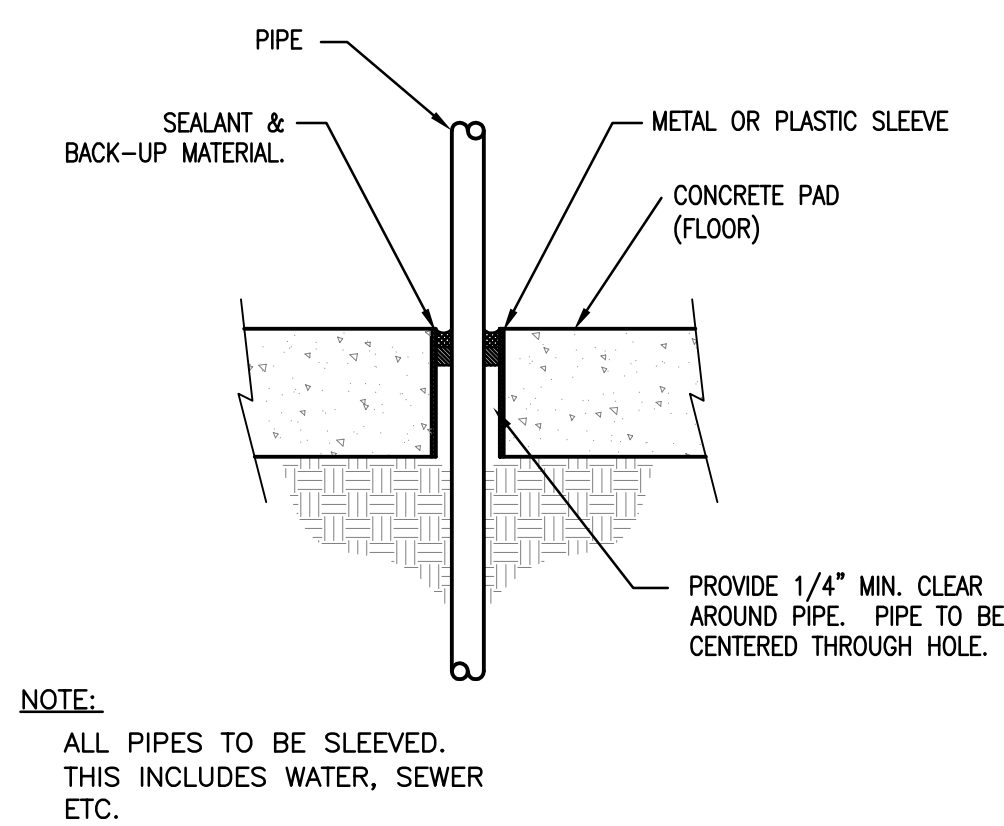
5 WALL CLEANOUT  
P601 NO SCALE



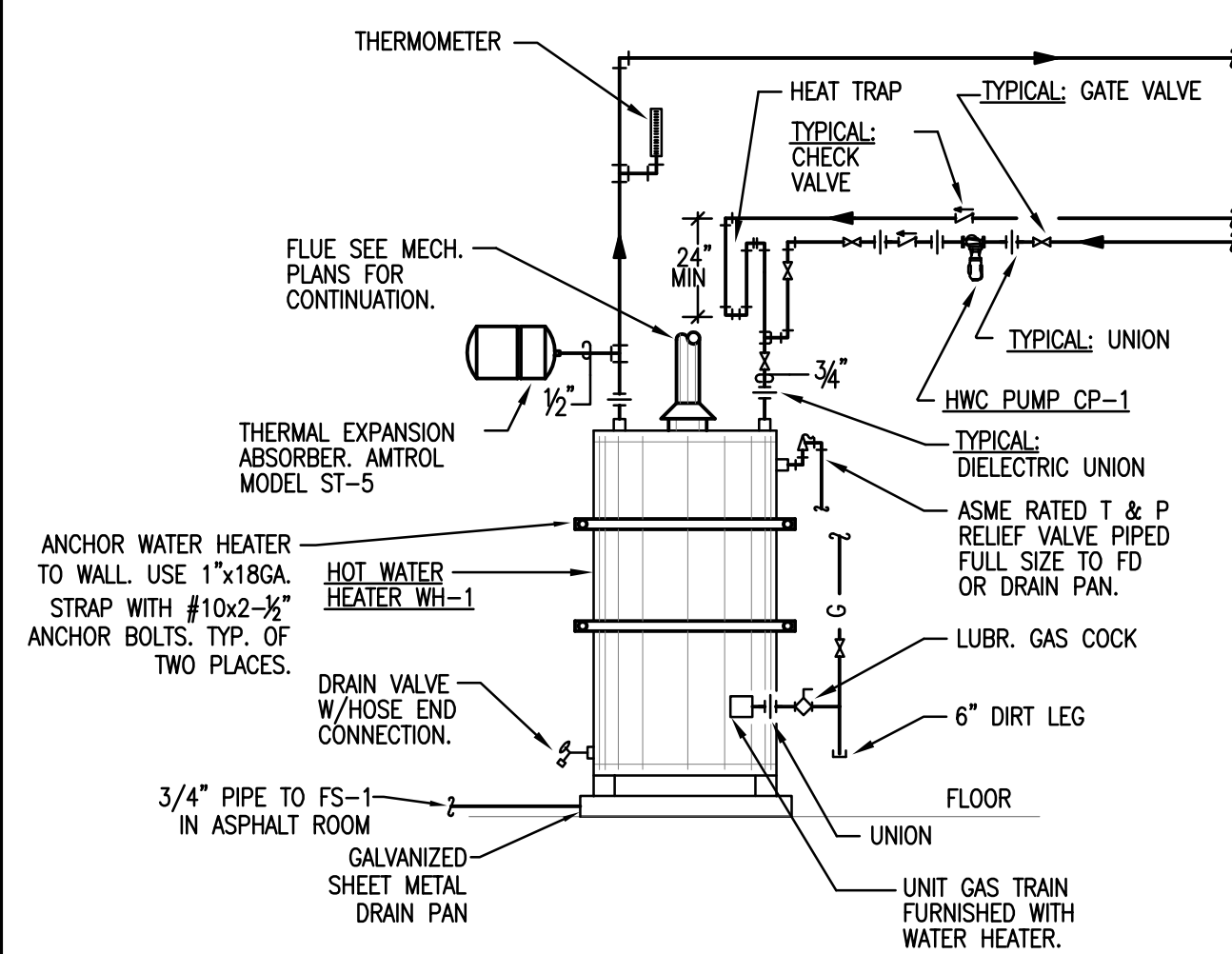
6 FLOOR CLEANOUT  
P601 NO SCALE



## 7 BURIED PIPE DETAIL



8 PIPING THROUGH ON GRADE FLOOR  
P601 NO SCALE



9 GAS FIRED WATER HEATER  
P6.2 NO SCALE



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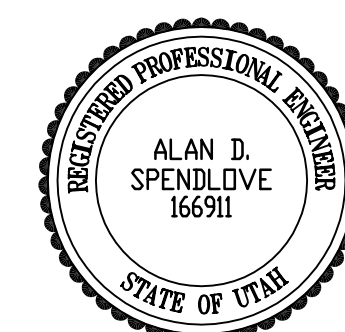
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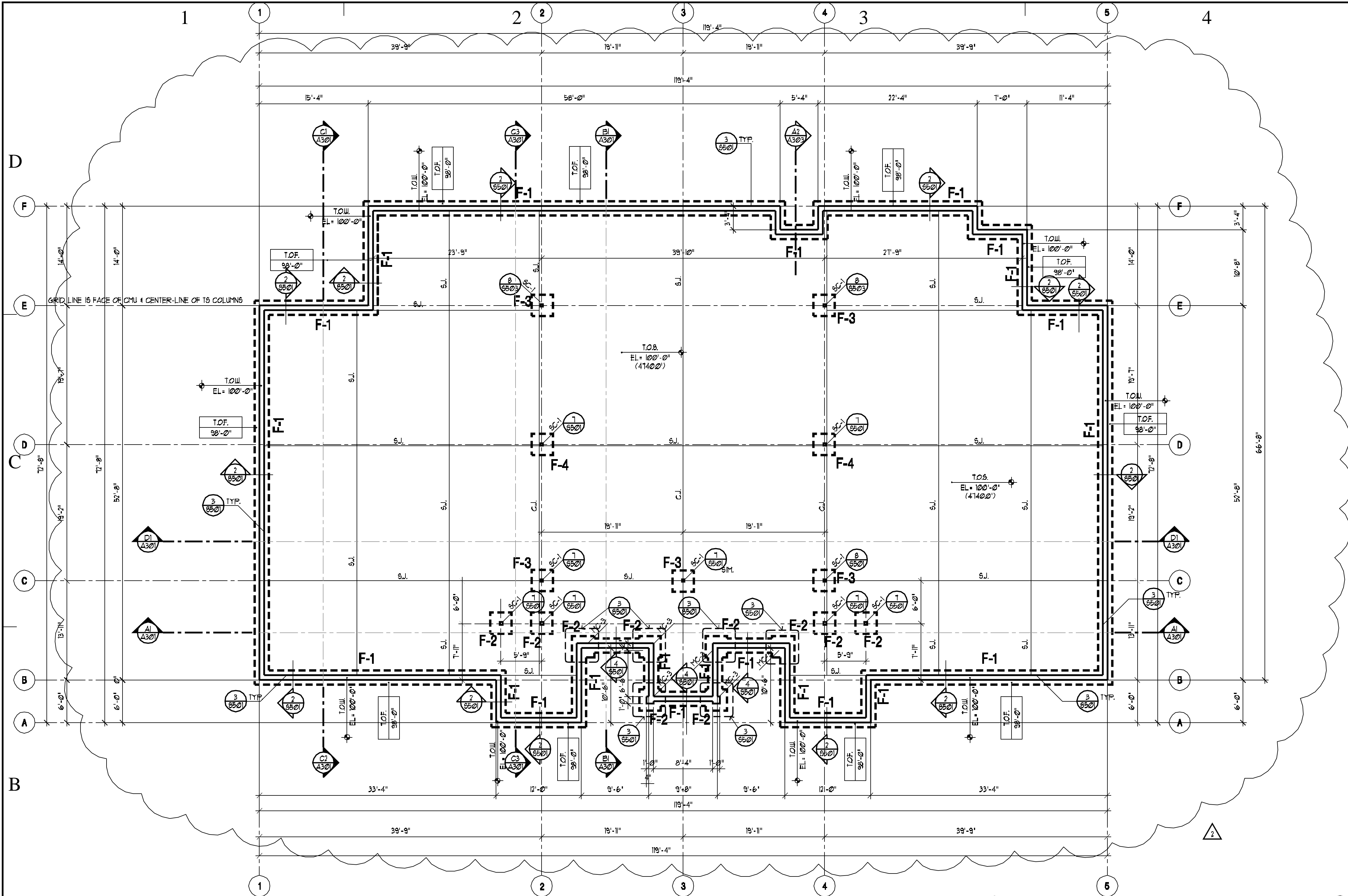
## PLUMBING DETAILS

SHEET NUMBER

P601

SHEET 42 OF 53

MARK	DATE	DESCRIPTION
▲	8-11-05	ADDENDUM #1
▲	8-19-05	ADDENDUM #2



PROJECT NORTH  
FOOTING AND FOUNDATION PLAN  
SCALE: 1/8" = 1'-0"

1  
S101

FOOTING SCHEDULE											
MARK	WIDTH	LENGTH	THICK	LONGITUDINAL REINFORCEMENT				CROSSWISE REINFORCEMENT			
				NO.	SIZE	LENGTH	SPACING	NO.	SIZE	LENGTH	SPACING
F-1	2'-0"	CONT.	12"	-	-	-	-	3	#4	CONT.	EQ.
F-2	3'-0"	3'-0"	12"	3	#5	2'-6"	EQ.	3	#5	2'-6"	EQ.
F-3	4'-0"	4'-0"	12"	5	#5	3'-6"	EQ.	5	#5	3'-6"	EQ.
F-4	4'-6"	4'-6"	12"	5	#5	4'-0"	EQ.	5	#5	4'-0"	EQ.
								</			

STEEL COLUMN SCHEDULE	
MARK	COLUMN TYPE AND SIZE
SC-1	T6 4 X 4 X 1/4"

LEGEND	
T.O.W.	TOP OF WALL
T.O.F.	TOP OF FOOTING
T.O.S.	TOP OF SLAB
T.O.F.	TOP OF FOOTING
100'-0"	TAG FOR BASE BID BASEMENT

TYPICAL FOUNDATION WALL TO BE 8" THICK UNLESS NOTED OTHERWISE  
SEE FOUNDATION WALL REINFORCEMENT SCHEDULE FOR REINFORCEMENT.

FOUNDATION WALL REINFORCEMENT SCHEDULE								REMARKS
WALL THICKNESS	SIZE	SPACING	LOCATION	SIZE	SPACING	LOCATION		
UP TO 8'-0"	#4	16" O/C	CENTER	#4	12" O/C	CENTER		
UP TO 10'-0"	#5	16" O/C	CENTER	#4	12" O/C	CENTER		

STRUCTURAL NOTES

- NOTES:
- SEE SHEET S201 FOR GENERAL STRUCTURAL NOTES FOR DIMENSIONS NOT PROVIDED. SEE ARCHITECTURAL DRAWINGS.
  - C.J. DENOTES CONSTRUCTION JOINT. SEE DETAIL 1/5501.
  - S.J. DENOTES SALED JOINT. SEE DETAIL 1/5501.
  - F-1 DENOTES FOOTING SIZE. SEE SCHEDULE SHEET S201.
  - M-C-1 DENOTES MASONRY COLUMN. SEE DETAIL 1/5501.
  - HATCHING INDICATES MASONRY WALLS. 1/5501.
  - WHERE WALL EXPANSION JOINT OCCURS RUN BOND BEAM \* TOP CONTINUOUS THROUGH JOINT. SEE DETAIL 6/5501 FOR MASONRY WALL CONTROL JOINT.
  - TOP OF SLAB ELEVATION = 100'-0" UNLESS NOTED OTHERWISE. T.O.S.
  - ON PLAN.
  - INTERIOR SLAB ON GRADE SHALL BE 4" CONCRETE REINFORCED WITH 6X6 W 1/4 X 1/4 W/W/ OVER 4" FREE DRAINING GRAVEL. SEE PLAN FOR EXTERIOR SOG.
  - CENTER FOOTINGS ON WALL AND COLUMNS UNLESS DIMENSIONED OTHERWISE ON PLANS.
  - ALL FOOTINGS SHALL BARE ON SUITABLE NATURAL SOILS OR 2'-0" OF COMPACTED STRUCTURAL FILL.